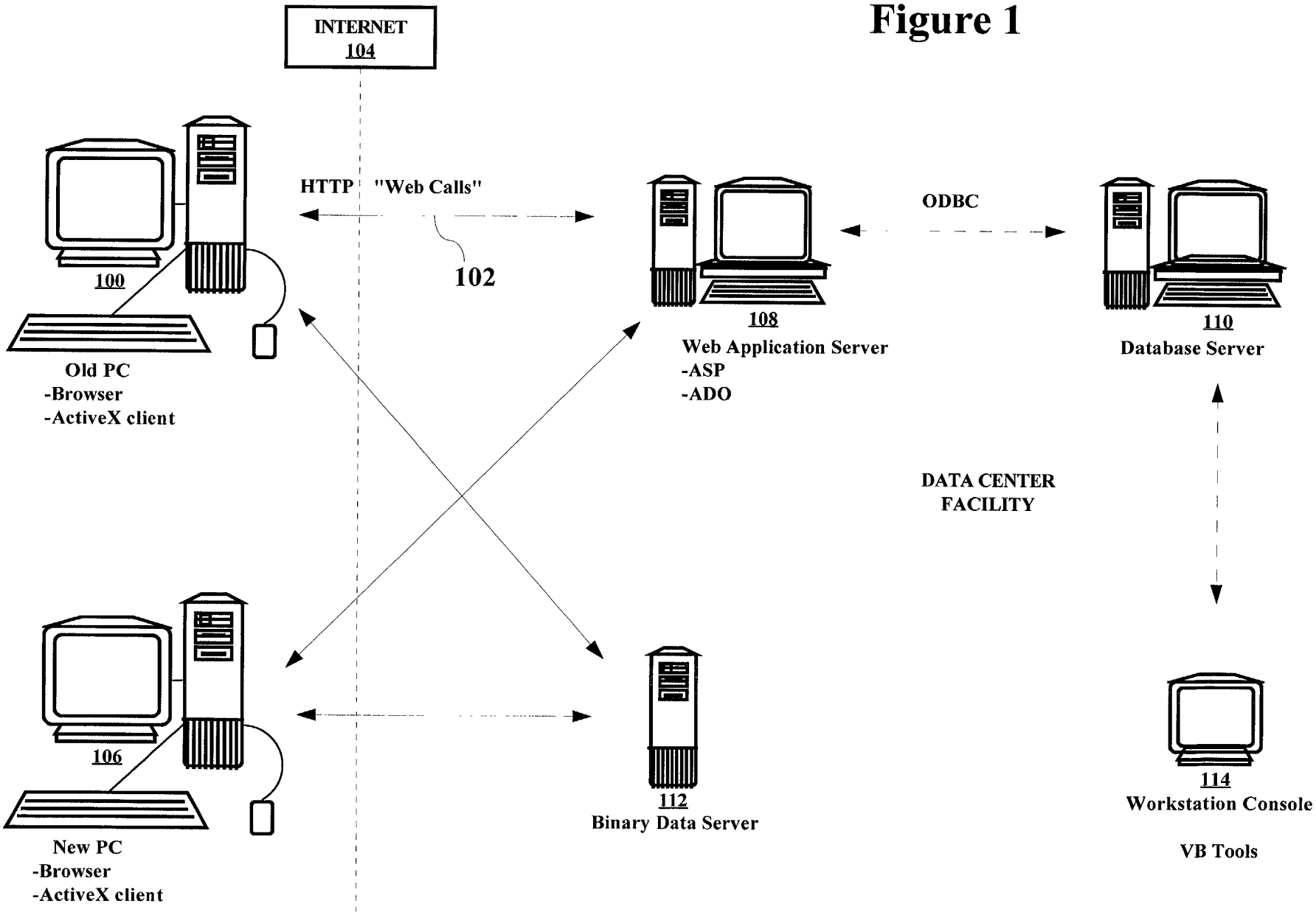
patent pending

Figure 1



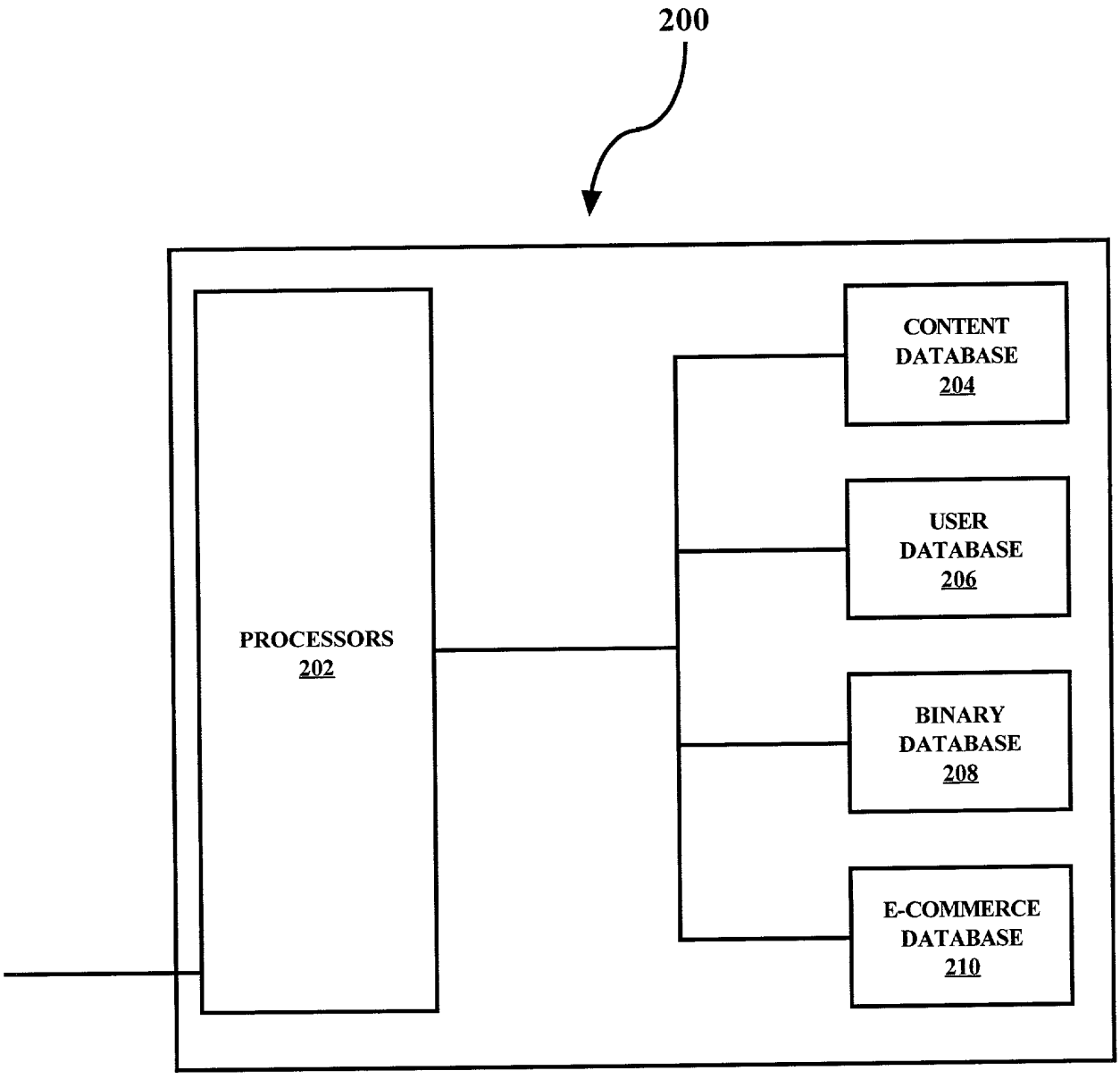

200
PROCESSORS
202
CONTENT
DATABASE
204
USER
DATABASE
206
BINARY
DATABASE
208
E-COMMERCE
DATABASE
210

Figure 2

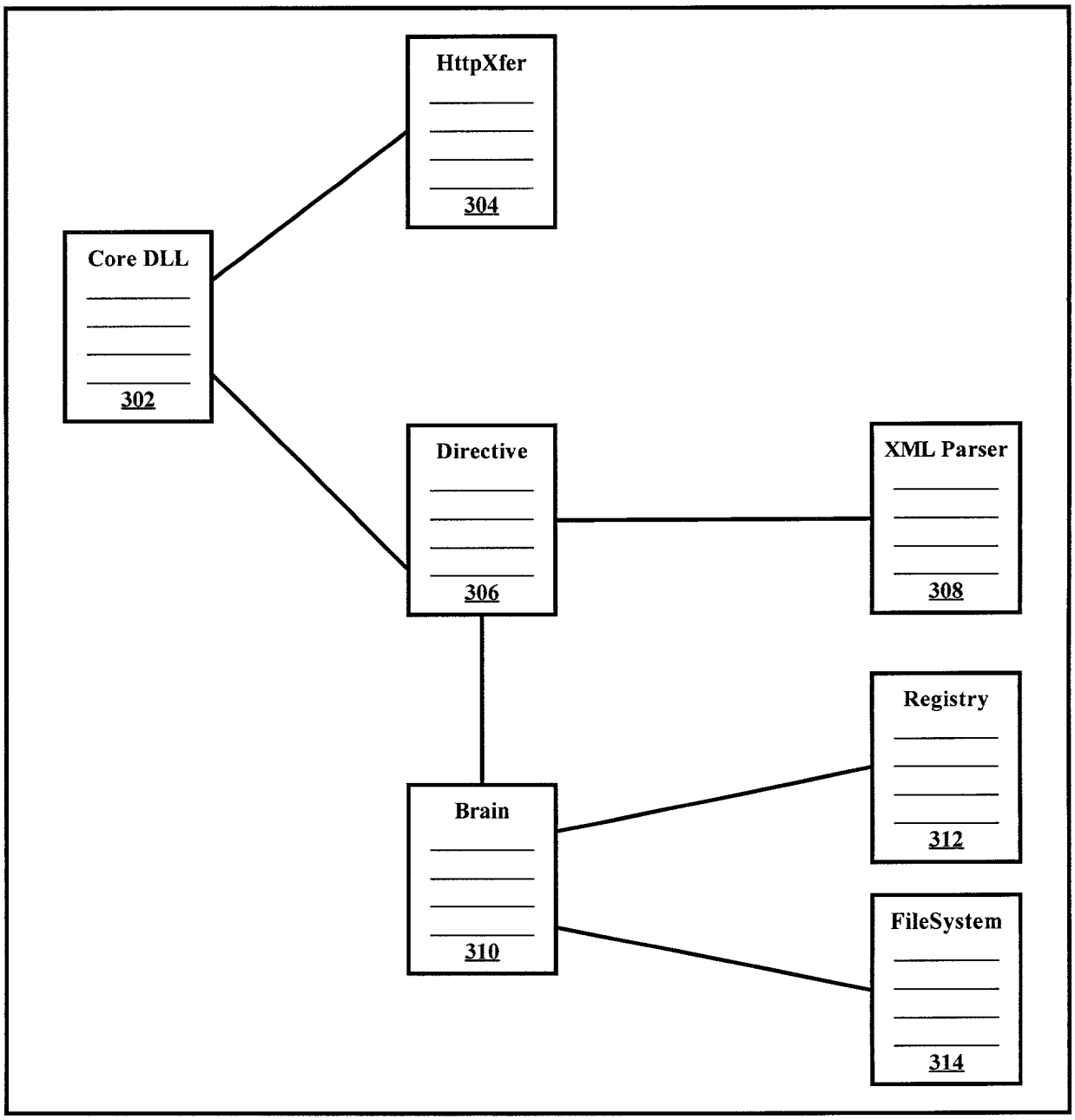

HttpXfer
304
Core DLL
302
Directive
306
XML Parser
308
Registry
312
Brain
310
FileSystem
314

Figure 3

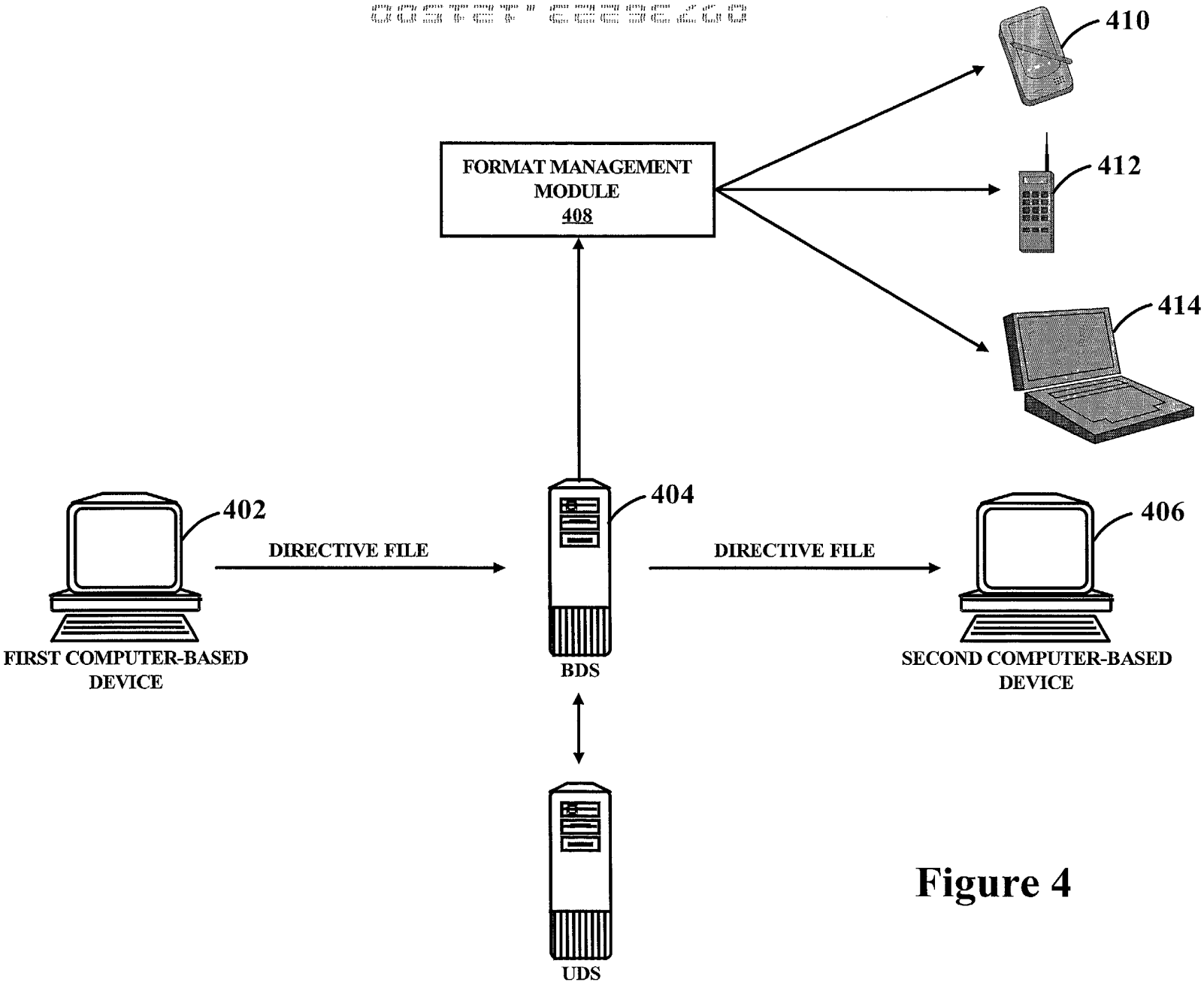

410
FORMAT MANAGEMENT MODULE
408
412
414
402
DIRECTIVE FILE
404
DIRECTIVE FILE
406
FIRST COMPUTER-BASED DEVICE
BDS
SECOND COMPUTER-BASED DEVICE
UDS

Figure 4

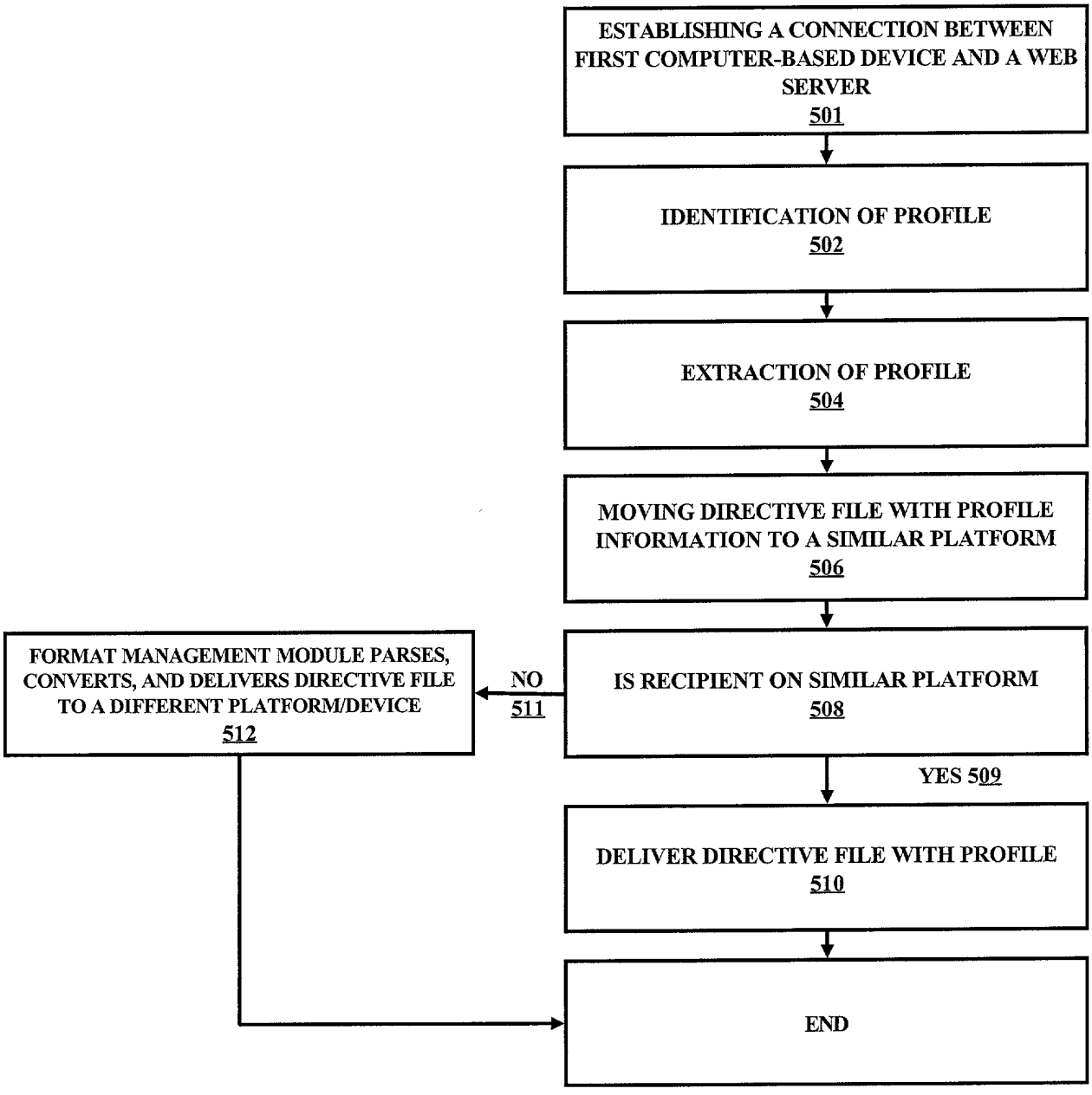

ESTABLISHING A CONNECTION BETWEEN FIRST COMPUTER-BASED DEVICE AND A WEB SERVER
501
IDENTIFICATION OF PROFILE
502
EXTRACTION OF PROFILE
504
MOVING DIRECTIVE FILE WITH PROFILE INFORMATION TO A SIMILAR PLATFORM
506
IS RECIPIENT ON SIMILAR PLATFORM
508
NO
511
FORMAT MANAGEMENT MODULE PARSES, CONVERTS, AND DELIVERS DIRECTIVE FILE TO A DIFFERENT PLATFORM/DEVICE
512
YES 509
DELIVER DIRECTIVE FILE WITH PROFILE
510
END

Figure 5

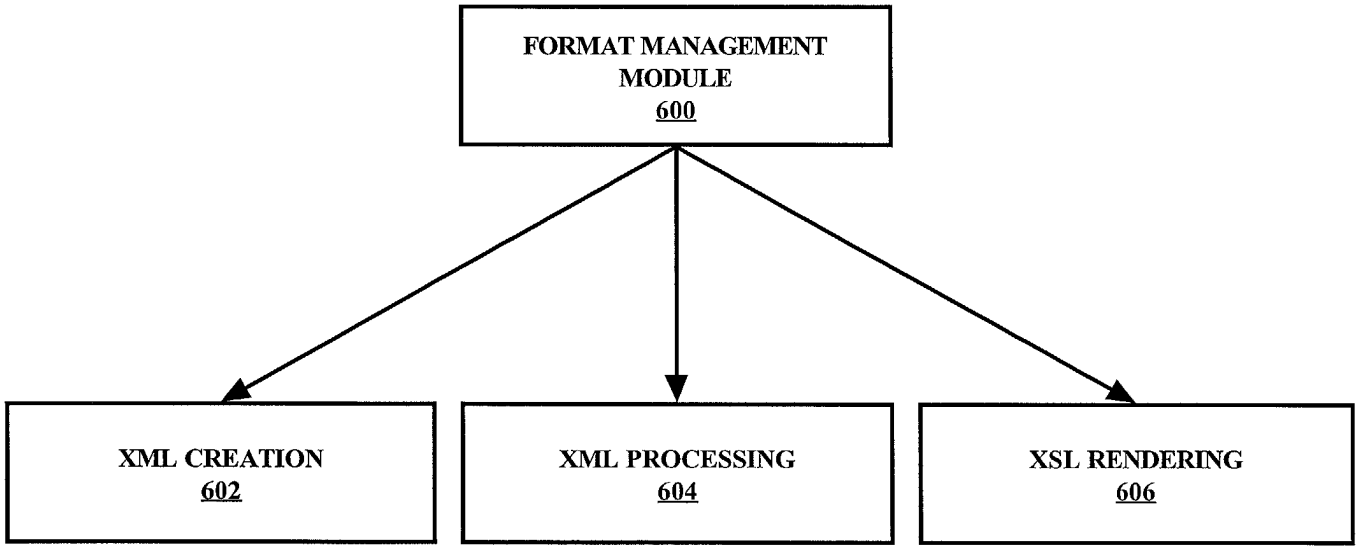

FORMAT MANAGEMENT MODULE
600
XML CREATION
602
XML PROCESSING
604
XSL RENDERING
606

Figure 6

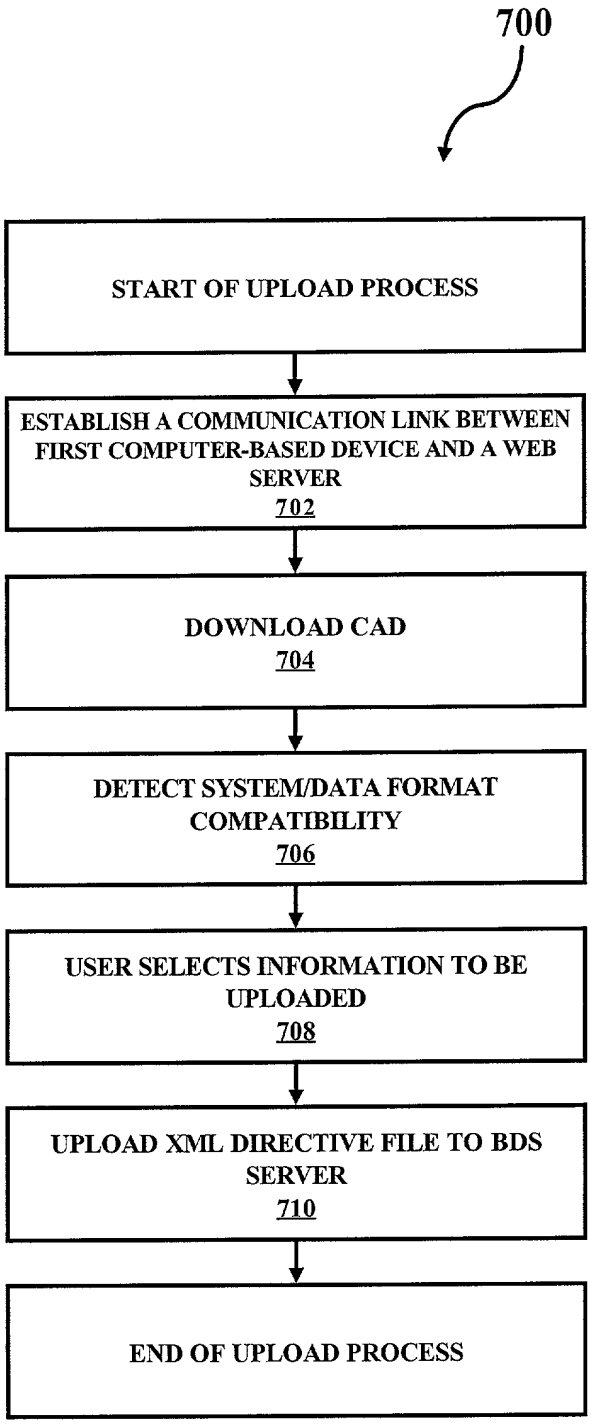

700
START OF UPLOAD PROCESS
ESTABLISH A COMMUNICATION LINK BETWEEN FIRST COMPUTER-BASED DEVICE AND A WEB SERVER
702
DOWNLOAD CAD
704
DETECT SYSTEM/DATA FORMAT COMPATIBILITY
706
USER SELECTS INFORMATION TO BE UPLOADED
708
UPLOAD XML DIRECTIVE FILE TO BDS SERVER
710
END OF UPLOAD PROCESS

Figure 7

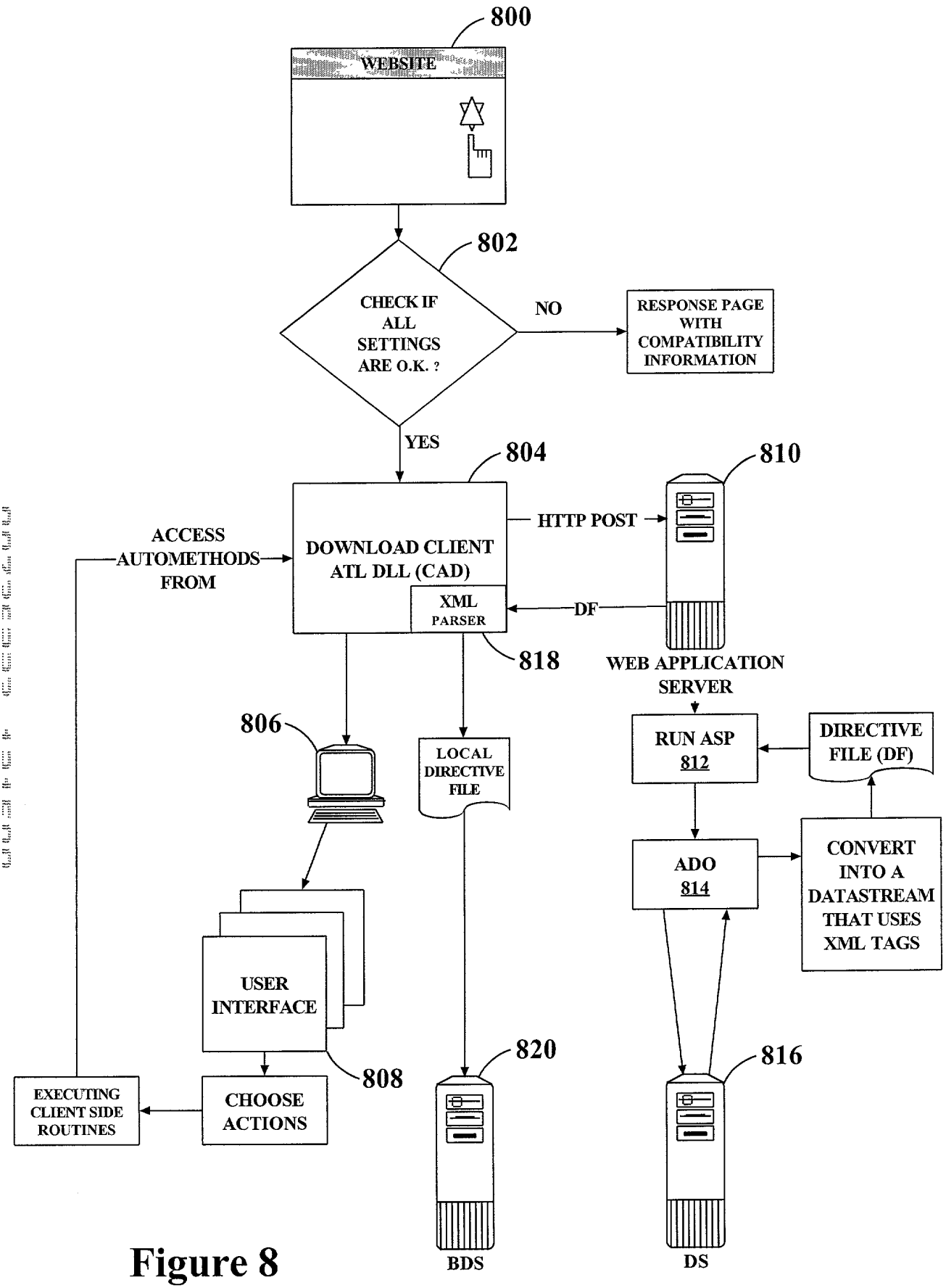

800
WEBSITE
802
CHECK IF ALL SETTINGS ARE O.K. ?
NO
RESPONSE PAGE WITH COMPATIBILITY INFORMATION
YES
804
DOWNLOAD CLIENT ATL DLL (CAD)
XML PARSER
ACCESS AUTOMETHODS FROM
HTTP POST
DF
810
WEB APPLICATION SERVER
818
806
LOCAL DIRECTIVE FILE
RUN ASP 812
DIRECTIVE FILE (DF)
ADO 814
CONVERT INTO A DATASTREAM THAT USES XML TAGS
USER INTERFACE
808
820
816
EXECUTING CLIENT SIDE ROUTINES
CHOOSE ACTIONS
BDS
DS

Figure 8

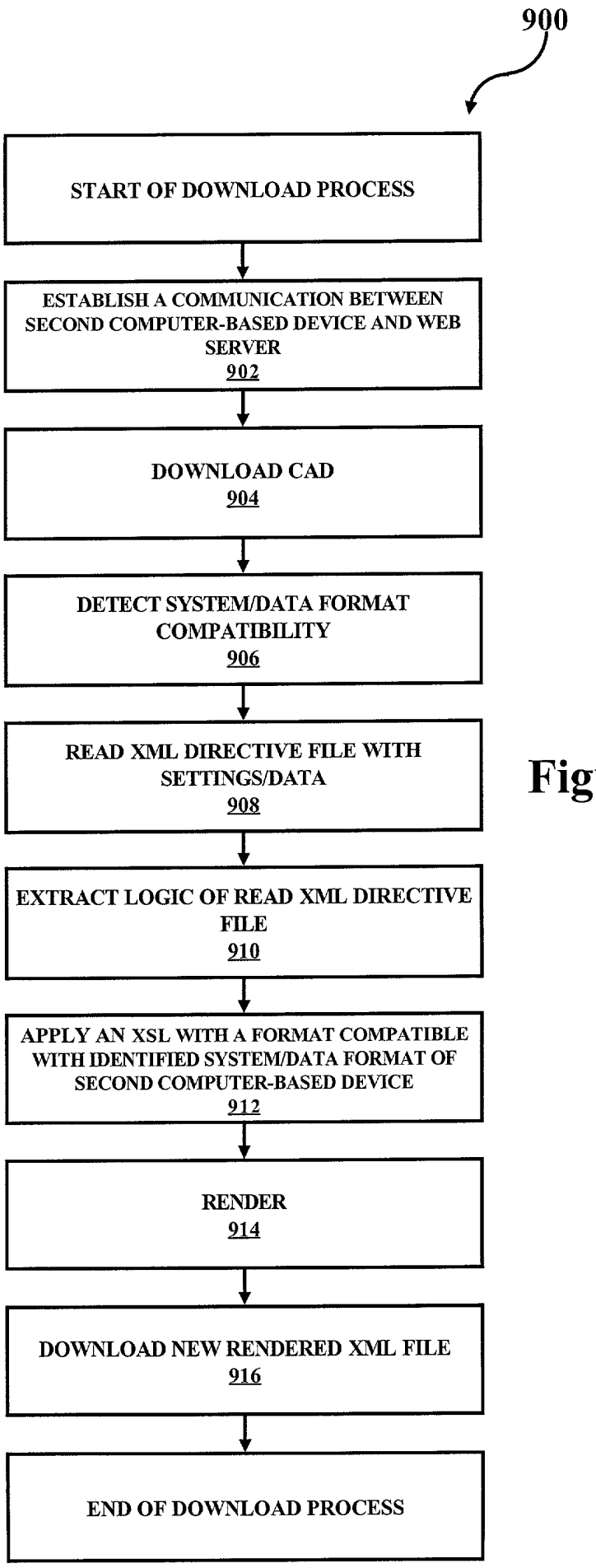

900
START OF DOWNLOAD PROCESS
ESTABLISH A COMMUNICATION BETWEEN SECOND COMPUTER-BASED DEVICE AND WEB SERVER
902
DOWNLOAD CAD
904
DETECT SYSTEM/DATA FORMAT COMPATIBILITY
906
READ XML DIRECTIVE FILE WITH SETTINGS/DATA
908
EXTRACT LOGIC OF READ XML DIRECTIVE FILE
910
APPLY AN XSL WITH A FORMAT COMPATIBLE WITH IDENTIFIED SYSTEM/DATA FORMAT OF SECOND COMPUTER-BASED DEVICE
912
RENDER
914
DOWNLOAD NEW RENDERED XML FILE
916
END OF DOWNLOAD PROCESS

Figure 9

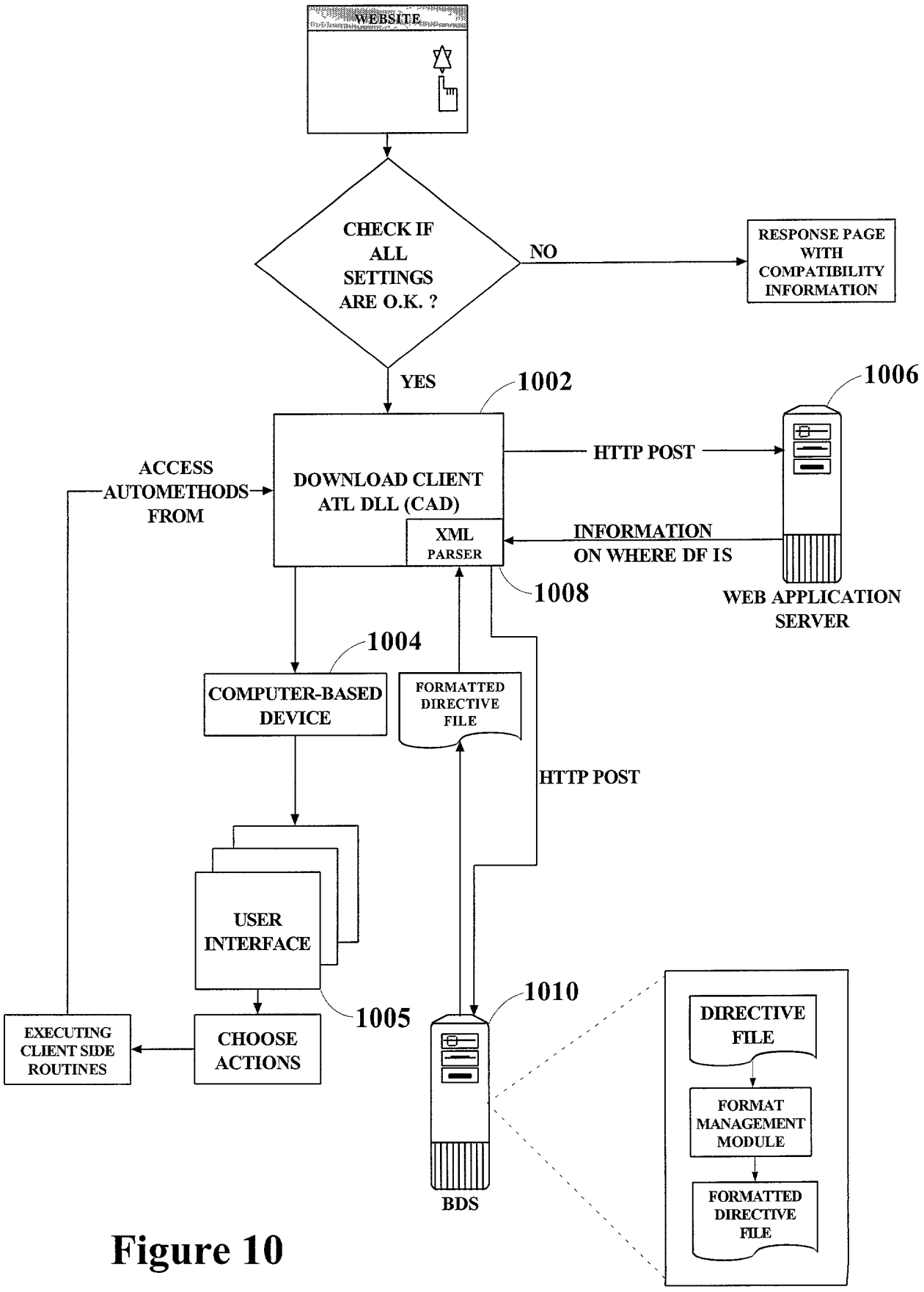

WEBSITE
CHECK IF ALL SETTINGS ARE O.K. ?
NO
RESPONSE PAGE WITH COMPATIBILITY INFORMATION
YES
1002
1006
ACCESS AUTOMETHODS FROM
DOWNLOAD CLIENT ATL DLL (CAD)
HTTP POST
XML PARSER
INFORMATION ON WHERE DF IS
1008
WEB APPLICATION SERVER
1004
COMPUTER-BASED DEVICE
FORMATTED DIRECTIVE FILE
HTTP POST
USER INTERFACE
1005
1010
EXECUTING CLIENT SIDE ROUTINES
CHOOSE ACTIONS
BDS
DIRECTIVE FILE
FORMAT MANAGEMENT MODULE
FORMATTED DIRECTIVE FILE

Figure 10

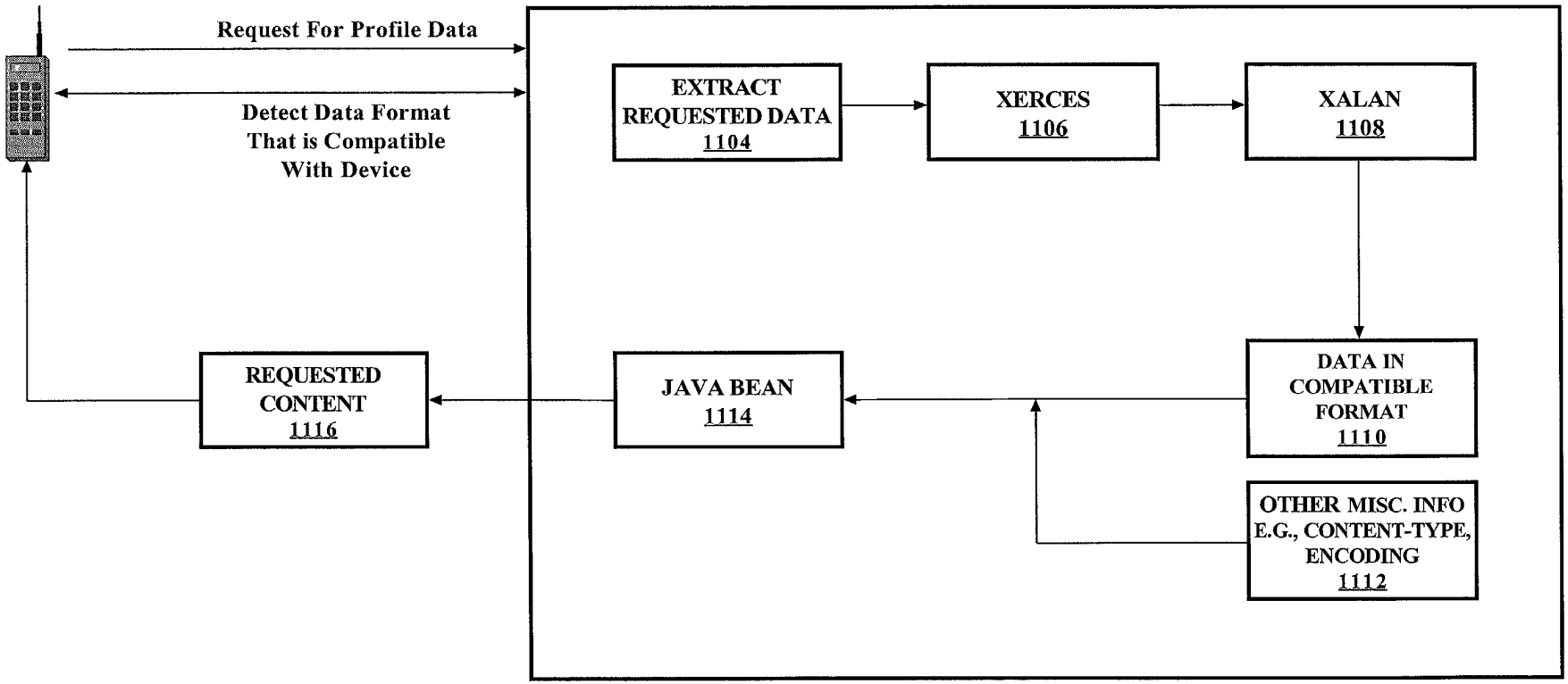

Request For Profile Data
Detect Data Format That is Compatible With Device
EXTRACT REQUESTED DATA 1104
XERCES 1106
XALAN 1108
DATA IN COMPATIBLE FORMAT 1110
OTHER MISC. INFO E.G., CONTENT-TYPE, ENCODING 1112
JAVA BEAN 1114
REQUESTED CONTENT 1116

Figure 11

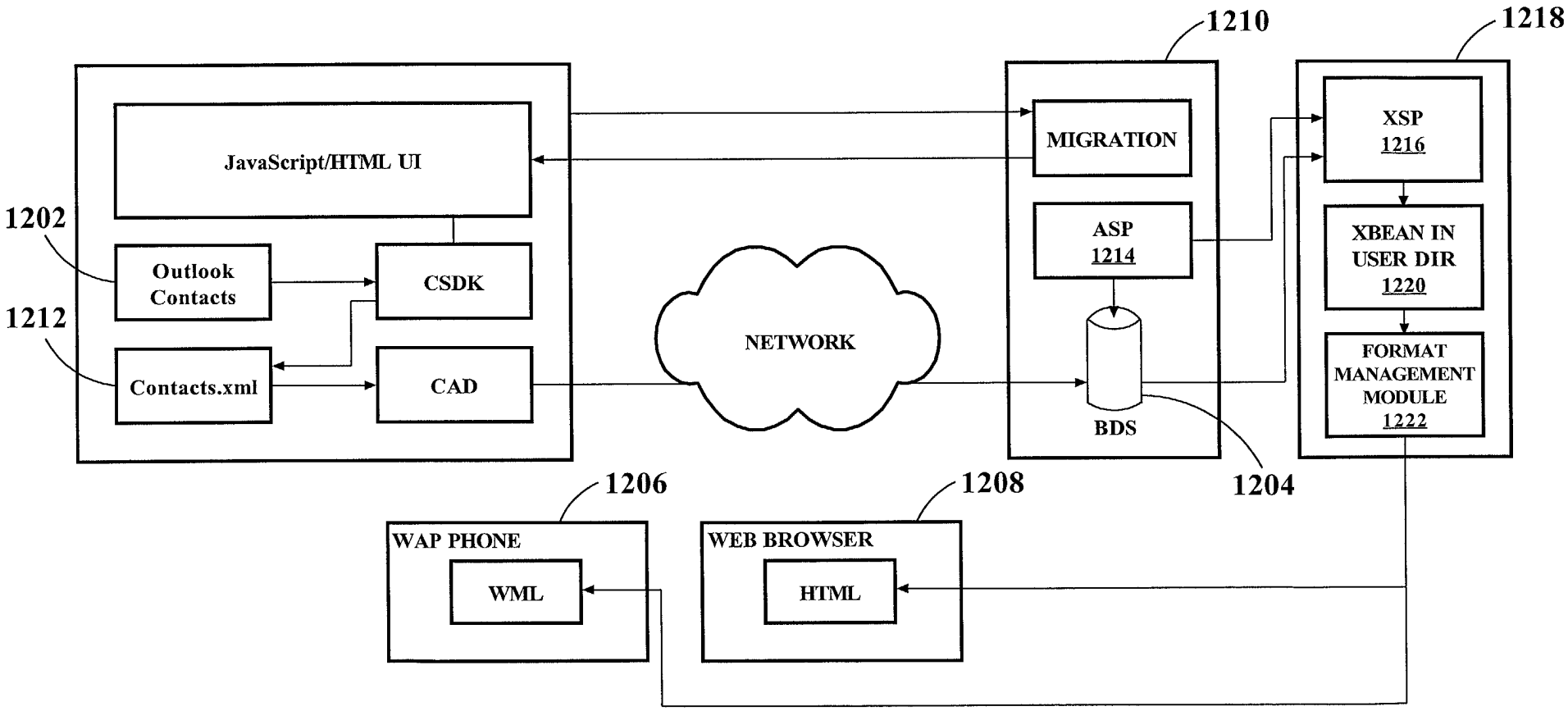
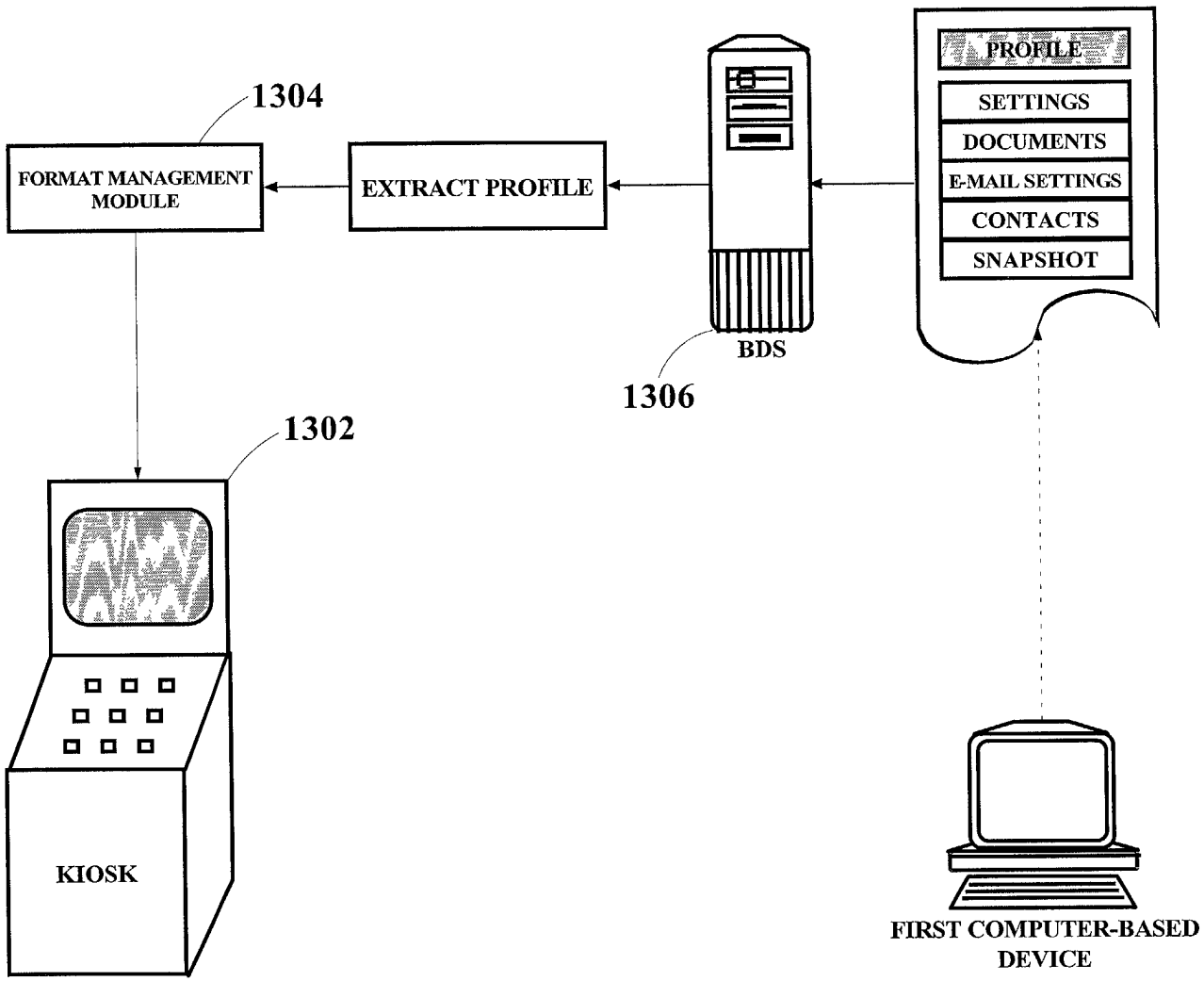

1210
1218
JavaScript/HTML UI
MIGRATION
XSP
1216
1202
Outlook
Contacts
CSDK
ASP
1214
XBEAN IN
USER DIR
1220
1212
NETWORK
Contacts.xml
CAD
BDS
FORMAT
MANAGEMENT
MODULE
1222
1204
1206
1208
WAP PHONE
WML
WEB BROWSER
HTML

Figure 12

Figure 13


1304
FORMAT MANAGEMENT MODULE
EXTRACT PROFILE
PROFILE
SETTINGS
DOCUMENTS
E-MAIL SETTINGS
CONTACTS
SNAPSHOT
BDS
1306
1302
KIOSK
FIRST COMPUTER-BASED DEVICE